

## RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number:

10/524,586

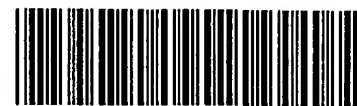
Source:

PCT

Date Processed by STIC:

4-14-06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 04/14/2006

PATENT APPLICATION: US/10/524,586

TIME: 11:22:41

Input Set : A:\2005\_0221A - Sequence Listing.txt

Output Set: N:\CRF4\04142006\J524586.raw

```

7 <110> APPLICANT: HONDA, Mitsuo
8     MATSUO, Kazuhiro
9     KANEKIYO, Masaru
11 <120> TITLE OF INVENTION: A recombinant BCG vaccine
13 <130> FILE REFERENCE: 2005-0221A/WMC/00653
15 <140> CURRENT APPLICATION NUMBER: 10/524,586
16 <141> CURRENT FILING DATE: 2005-02-15
18 <150> PRIOR APPLICATION NUMBER: JP2002-237610
19 <151> PRIOR FILING DATE: 2002-08-16
21 <160> NUMBER OF SEQ ID NOS: 5
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 25
25 <212> TYPE: DNA
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of artificial Sequence: Synthetic oligonucleotide
31 <400> SEQUENCE: 1
32 aatggatcct atagtgcaga acctc                               25
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 31
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Description of artificial Sequence: Synthetic oligonucleotide
42 <400> SEQUENCE: 2
43 aatgggcccct tacaaaactc ttgctttatg g                               31
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 706
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <221> NAME/KEY: CDS
53 <222> LOCATION: (5)..(700)
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic polynucleotide
58 <400> SEQUENCE: 3
59 ggat ccg atc gtc cag aac ctg cag ggc cag atg gtc cac cag gcc atc   49
60   Pro Ile Val Gln Asn Leu Gln Gly Gln Met Val His Gln Ala Ile
61       1             5             10             15
63 tcg ccg cgc acc ctg aac gcc tgg gtc aag gtc gtc gag gag aag gcc   97
64 Ser Pro Arg Thr Leu Asn Ala Trp Val Lys Val Val Glu Glu Lys Ala
65           20           25           30
67 ttc tcg ccg gag gtc atc ccg atg ttc tcg gcc ctg tcg gag ggc gcc   145

```

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```

68 Phe Ser Pro Glu Val Ile Pro Met Phe Ser Ala Leu Ser Glu Gly Ala
69          35          40          45
71 acc ccg cag gac ctg aac acc atg ctg aac acc gtc ggc ggc cac cag 193
72 Thr Pro Gln Asp Leu Asn Thr Met Leu Asn Thr Val Gly Gly His Gln
73          50          55          60
75 gcc gcc atg cag atg ctg aag gag acc atc aac gag gag gcc gcc gag 241
76 Ala Ala Met Gln Met Leu Lys Glu Thr Ile Asn Glu Glu Ala Ala Glu
77          65          70          75
79 tgg gac cgc ctg cac ccg gtc cac gcc ggc ccc atc gca ccg ggc cag 289
80 Trp Asp Arg Leu His Pro Val His Ala Gly Pro Ile Ala Pro Gly Gln
81 80          85          90          95
83 atg cgc gag cct cgc ggc tcg gac atc gcc ggc acc acc tcg acc ctc 337
84 Met Arg Glu Pro Arg Gly Ser Asp Ile Ala Gly Thr Thr Ser Thr Leu
85          100          105          110
87 cag gag cag atc ggc tgg atg acc cac aac ccg ccg atc ccg gtc ggc 385
88 Gln Glu Gln Ile Gly Trp Met Thr His Asn Pro Pro Ile Pro Val Gly
89          115          120          125
91 gag atc tac aag cgc tgg atc atc ctg ggc ctg aac aag atc gtc cgc 433
92 Glu Ile Tyr Lys Arg Trp Ile Ile Leu Gly Leu Asn Lys Ile Val Arg
93          130          135          140
95 atg tac tcg ccg acc tcg atc ctg gac atc cgc cag ggt ccg aag gag 481
96 Met Tyr Ser Pro Thr Ser Ile Leu Asp Ile Arg Gln Gly Pro Lys Glu
97          145          150          155
99 ccg ttc cgc gac tac gtc gac cgc ttc tac aag acc ctc cgc gcc gag 529
100 Pro Phe Arg Asp Tyr Val Asp Arg Phe Tyr Lys Thr Leu Arg Ala Glu
101 160          165          170          175
103 cag gcg tcg cag gag gtc aag aac tgg atg acc gag acc ctg ctg gtc 577
104 Gln Ala Ser Gln Glu Val Lys Asn Trp Met Thr Glu Thr Leu Leu Val
105          180          185          190
107 cag aac gcc aac ccg gac tgc aag acc atc ctg aag gcc ctg ggt ccg 625
108 Gln Asn Ala Asn Pro Asp Cys Lys Thr Ile Leu Lys Ala Leu Gly Pro
109          195          200          205
111 ggc gcc acc ctg gag gag atg atg acc gcc tgc cag ggc gtc ggc ggc 673
112 Gly Ala Thr Leu Glu Glu Met Met Thr Ala Cys Gln Gly Val Gly Gly
113          210          215          220
115 ccg ggc cac aag gcg cgc gtc taa gggccc 706
116 Pro Gly His Lys Ala Arg Val Leu
117          225          230
120 <210> SEQ ID NO: 4
121 <211> LENGTH: 15
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Description of artificial Sequence: Synthetic oligopeptide
128 <400> SEQUENCE: 4
129 Leu Glu Arg Phe Ala Val Asn Pro Gly Leu Leu Glu Thr Ser Glu
130 1          5          10          15
133 <210> SEQ ID NO: 5
134 <211> LENGTH: 15

```

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135 &lt;212&gt; TYPE: PRT

136 &lt;213&gt; ORGANISM: Artificial Sequence

138 &lt;220&gt; FEATURE:

139 &lt;223&gt; OTHER INFORMATION: Description of artificial Sequence: Synthetic oligopeptide

141 &lt;400&gt; SEQUENCE: 5

142 Asn Ile Gln Gly Gln Met Val His Gln Ala Ile Ser Pro Arg Thr

143 1 5 10 15

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/524,586

DATE: 04/14/2006

TIME: 11:22:42

Input Set : A:\2005\_0221A - Sequence Listing.txt

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